Dear tshingombe,
Here is the copy of the Project Pitch with reference number : **00100839** submitted to the **Energy Technologies (EN)** on **4/10/2025**.

1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
tshingombe
3. Submitter Last Name
tshitadi
4. Submitter Phone Number
0725298946
5. Company Name
engineering
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
htpps//:www.tshingombe.com
9. SBIR/STTR topic that best fits your projects technology area
Energy Technologies (EN)
Are you eligible and interested in being considered for the NSF Fast-Track program?
No
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
No
11. Has your company received a prior NSF SBIR or STTR award?
No
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
No
13. Briefly Describe the Technology Innovation?Prospect Student Alu Research 2 Assessement Thesisi Experimental ,
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fiston
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timeHistory
Publication date
2025-04-05

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14. Briefly Describe the Technical Objectives and Challenges?Curriculum assessment assessment
Name : tshingombe tshitadi fiston
Content:
Table of Contents
Curriculum assessment assessment
Name : tshingombe tshitadi fiston
1.1
Thesis. Degree honor, council quality rules low become justice development court and labor relations conciliation mediation, Engineering electrical trade research policy skill ,safety security
order develop ,defense order
2.1 Thesis. Degree honor, council quality rules low become justice
development court and labour relations conciliation mediation, Engineering electrical trade research policy skill ,safety security
order develop ,defense order
Thesis. Degree honour, council quality rules low become justice development court and labour relations counciliation mediation,

Engineering electrical trade research policy skill ,safety security
order developm ,defense order
5.1 Examination project
Master's in Artificial General Intelligence and Social Sciences
Introduction to Artificial General Intelligence
AGI and Human Cognition
Ethical Considerations of AGI
AGI and Economic Implications
AGI in Public Policy and Governance
Social Impact of AGI
tshingombe tshitadi
Masters /engineering
About Me
Name
Follow Me On
My Education
Work Experience
Skills
Professional Skills
My Interests & Hobbies
Engineering electrical assessment career but sustainability
Some of my work & Certifications
Some Works
Thesis & Publications
AGI in Human-Machine Collaboration
Future Scenarios of AGI Development
4.1 .12.14,,
online Retail and E-commerce in the Renewable Energy Sector
Introduction to E-commerce in the Renewable Energy
SectorUnderstanding the Renewable Energy Market
E-commerce Strategies for Renewable Energy Products
Consumer Behavior in Online Retail
Digital Marketing for Renewable Energy E-commerce
Sustainable Practices in E-commerce
Case Studies in Renewable Energy E-commerce
Regulatory Environment for Online Retail in Renewable Energy
Future Trends in Online Retail and Renewable Energy
Publishing and Natural Resources Management
Introduction to Sustainable Natural Resources Management
The Role of Publishing in Sustainability
Environmental Journalism and Communication
Digital Publishing and New Media
Content Creation for Natural Resource Management
Policy Advocacy and Public Engagement
Sustainable Practices in Publishing

Case Studies in Effective Sustainability Communication
Masters in Supply Chain Management and Traceability
Introduction to Supply Chain Management
Principles of Traceability
Software Engineering Basics
Supply Chain Digitalization
Data Management in Supply Chains
Blockchain for Supply Chain Traceability
IoT and Smart Supply Chains
Security and Privacy in Supply Chain Software
Case Studies and Real-world Applications
Social Media Marketing for Real Estate, Rental, and Leasing
Introduction to Social Media Marketing
Target Audience Analysis
Content Creation for Real Estate
Platform-Specific Strategies
15. Briefly Describe the Market Opportunity?
Cducation
Virtual Labs and Simulations
Assessing Learner Outcomes in Technology-Driven Curriculum
Case Studies in Renewable Energy Education
Challenges in Integrating Technology and Renewable Energy Education
Wholesale Trade Management in Industrial Engineering
Introduction to Wholesale Trade
Supply Chain Dynamics
Inventory Control Methods
Logistics and Distribution
Procurement Strategi
16. Briefly Describe the Company and Team?Hardware Configuration
4. Optimization of IoT-Enabled Electrical Systems
o Experiment: Configure Cisco IoT hardware for industrial automation and
monitor its impact on electrical system efficiency.
o Focus: Compare outcomes with traditional non-IoT systems.
5. Network Traffic Impact on Energy Consumption
o Experiment: Measure the correlation between network traffic and power
usage in Cisco networking hardware.
o Focus: Simulate high and low traffic conditions to evaluate energy
saving features.
6. Compatibility of Cisco Devices with Electrical Standards
o Experiment: Test Cisco hardware configurations against national and
international electrical engineering standards.

o Focus: Ensure compliance and reliability under diverse conditions.
Electrical System Integration
7. Smart Grid Performance with Cisco Hardware
o Experiment: Investigate the role of Cisco networking devices in
optimizing energy distribution within smart grids.
o Focus: Study how configurations improve fault detection and load
management.
8. Renewable Energy Integration
o Experiment: Configure Cisco hardware to monitor and control systems
with renewable energy sources like solar panels.
o Focus: Analyze the efficiency of hardware configurations in hybrid
energy setups.
o
17. How did you first hear about our program?
NSF email, webinar, or event

NSF SBIR/STTR Phase I Eligibility Information:

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I
Program based upon the review of their submitted Project Pitch,potential proposers to the program
must also qualify as a small business concern to participate in the program (see SBIR/STTR
Eligibility Guidefor more information).
The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,
and all funded work needs

to take place in the United States (including work done by consultants and contractors).
• Primary employment is defined as at least 51 percent employed by the small business. NSF
normally considers a full-time work week to be 40 hours and considers employment elsewhereof greater than 19.6 hours per week to be in conflict with this requirement.

• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the
funded project, per six months of project duration.
For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using
https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf.
Please note that these
requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarily
when the proposal is submitted.

2. Dear fiston,

Here is the copy of the Project Pitch with reference number : **00097898** submitted to the
Advanced Systems for Scalable Analytics (AA) on **2/3/2025**.
1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
fiston
3. Submitter Last Name
tshingombe
4. Submitter Phone Number
0725298946
5. Company Name
Engineering tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
https://tshingombe.com
9. SBIR/STTR topic that best fits your projects technology area
Advanced Systems for Scalable Analytics (AA)
Are you eligible and interested in being considered for the NSF Fast-Track program?
No
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
No
11. Has your company received a prior NSF SBIR or STTR award?
No
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at

NSF?
No
13. Briefly Describe the Technology Innovation?Education technology relate low manufacture thesis.low outcome framework qualicafition.invrstisgation energie rurale framework meeting and no
meeting development system integration system plant imagine and real
system complex system energy . Educational regulation irregularite
system and regulation system .project integration time table
14. Briefly Describe the Technical Objectives and Challenges?
Technical challenges real industrial and imaginar system time table
education field artisant build to real African system in marketing
15. Briefly Describe the Market Opportunity?
Market system money .sale record implementating programmes design
imagined cost assessment in the time frame lost maintenance emergency
system
16. Briefly Describe the Company and Team?
Campagny team member organisation sub sector engineering system and
educator system career experience outcome career undertake job .
17. How did you first hear about our program?
University tech transfer, VPR, or other administrative office

NSF SBIR/STTR Phase I Eligibility Information:

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I
Program based upon the review of their submitted Project Pitch,potential proposers to the program
must also qualify as a small business concern to participate in the program (see SBIR/STTR
Eligibility Guidefor more information).
The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,
and all funded work needs to take place in the United States (including work done by consultants

and contractors).
• Primary employment is defined as at least 51 percent employed by the small business. NSF
normally considers a full-time work week to be 40 hours and considers employment elsewhere
of greater than 19.6 hours per week to be in conflict with this requirement.
• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the
funded project, per six months of project duration.
For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using
https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf.
Please note that these
requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted. Dear fiston,

Here is the copy of the Project Pitch with reference number : **00098889** submitted to the **Energy**
Technologies (EN) on **2/25/2025**.
1. Submitter Email
`tshingombefiston@gmail.com`
2. Submitter First Name
`fiston`
3. Submitter Last Name
`tshingombe`
4. Submitter Phone Number
`0725298946`
5. Company Name
`Engineering electrical tshingombe`
6. Company Zip Code
`10300`
7. Company State
AR
8. Company Website
`https://github.com/Kananga5/Curriculum-section-1-1.1-Thesis.-Degree`
`honor-council-quality-rules-low-become-ju`
9. SBIR/STTR topic that best fits your projects technology area
`Energy Technologies (EN)`
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please provide details of the NSF research funding relied upon to meet the eligibility
requirements, including: NSF research award number(s); the proposing company personnel

involved in each of the listed research awards and their roles in the research awards; and a brief
explanation of how the cited research funding relates to the proposed Fast-Track project. (up to
150 words) Thesis. Degree honor, council quality rules low become justice
development court and labor relations conciliation mediation, Engineering electrical trade research policy skill ,safety security
order develop ,defense order
1 .1.1 *Thesis:
* Research policy
trade theory minimum : legislation skill development :
*1.1.2Education technology,: Education engineering relate low manufacture ..
Degree honorable ; college low labor justice ,
* Low relate literature traditional African LTA practical low rules
African
Convert unite international relate low rules European American curent in
unity language culture African rules
Please provide details of the customer discovery training relied upon to meet the eligibility
conditions, including: a description of the customer discovery training program(s), with
corresponding dates and award number(s) or other program identification details; a description of
the technology in relation to which the customer discovery was undertaken, and a summary of the
customer discovery findings. (Up to 250 words) Thesis. Degree honor, council quality rules low become justice
development court and labor relations conciliation mediation, Engineering electrical trade research policy skill ,safety security
order develop ,defense order
1 .1.1 *Thesis:
* Research policy
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honorable member certificate transcript outcome award
*overview : journal
* Key :
* Background:
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research recharge system education technologie education technical
career and vocational career trade training trainer facilitator moderator low assessor
Please check the appropriate box below to indicate whether the proposing Fast-Track team will
be complete at the time of proposal submission. Yes
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234568
Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to
discuss this prior full proposal submission? 1..1 introduction :
framework experimental nated ncv combination
Nated combination irregularity policy management system information
workbase experimental facilities moderator p
*1.3.2..3 Overview career libraries ,mentor facilitator library research
method book .
Low congre library,

*1.3.2..3.
3.1Key: about library research centre the mission of the low library of
congress is to provide authoritative legal research , reference and
instructions service and access to an resolved.
Established 1832 low library has a collection of over ,2,9 million
volumes spanning all systems and period of low and government all the .
* The library of congress provides congress admnister the national
copyright system and manage the largest collection of book recording ,
photography maps ,16 years authority record .
* Administration commercial ,low environment criminals low procedure
intelligence , property legal , .
* Broken down research court record .
* Grant proposal : non profit grant proposal date submission grant
submitted to asresss

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1.3.2..3.4.request for proposal :
4.1* education technology ,and master engineering electrical a,
Education Technical career Engineering .
*REP. |. Proposal | compagny
- 4.2 .project overview :
- 4.3 .project goals :
-4.4.scope of work :
-4.5 .current roadblocks and bariere.
- 4.6.evaluation metric and .
-4.7. submission requirements.
- project due |. Date. | Budget amount
-Contact : email.

_____
1.3.2..3..1.*Overview: national skill fund ,,and national research
fund. Career proposal
-1.2*dealine : local Engineering study in workplace jhb RSA.
PretoriaMidrand. To
UK and USA ,10 December 2024.
-1.3* time frame : 5 years ,,to 2 years
- 1.4*limitations : principal career proposal career compte.
-1.5* submission by : Aiu research and. ,dhet saqa.
-1.6* instruction : pdf proposal and award policy (

PAPPGG),NSF..,,proposal certificate congre archive internet library
Award compagny. Aware ,,saqa aware ,dhet aware ,college aware.
-1.7.* minimum budget : 40000.0000 total program officer budge except.
Google budge apple
- 1.8* eligibility:
* Requirements : as of application ,hold degree field engineer trainee,
provide award type .
- preparatoration :
1.10.Review faculty early development:. allocation note:.

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- |documents| require|requirements|NSf
-cover projet | yes | begin withcareer|N/a
-project summary| y|following | N/a
-project descript| y |. | N/a
-result from | yes |.
-budget and|
- facilitator.|
-senior person|
- bibliography.|
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1.3.2..3.1.11. project description : .
1.11.1 proposal sect research :
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1.11.3. preliminary :
1.11.4 .data appropriate :
1.11.5.literaire where appropriate :
1.11.6. hypothesis overall :
1.11.7. questions research :
1.11.8 .description propose education activity integration:
1.11.9. description team and experience and expertise argument lock.
1.11.10. research / Education relevant for your career trajectory goal..
1.11.11 . limitations : conting plans .
1.11.12 . Expected outcome .
1.11.13. Definition of project of scussful .
1.11.14 distribution / delivery time research .1.11.14. measure planned or possibility resulted ...
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11. Has your company received a prior NSF SBIR or STTR award?
No
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
Yes
13. Briefly Describe the Technology Innovation?
evel disciplinary
1.2 .problem statement :
Implementating framework qualicafition system agreement statement over
stay system education technologie and technical vocational engineering
field in Engineering lecture and assessor conducted learner need to
print in time outcome information and quickly statement ..of review
marked and remarking
- purpose of study : research advanced field and research basic essential field system rurale need to implementating in new system.
Energy of education technology era system council adoption low rules
statement college distance learning courses subject issue teacher
design framework and work framework with learner job. Team ..
1.3 .2 rational : idea logic approach methodic disciplinary hearing
duty system of institution vocational and system management system
information need resolved , idee job fractinel evidence low design
information management system instituts police no meeting equivalent
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-1.5 background to the study :
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policy dhet cat council award challenge policy college academic with
engineering system theory and combination factor need theory to be
agreed with internal14. Briefly Describe the Technical Objectives and Challenges?power Systems and Renewable Energy
Optimization of Microgrid Systems
oInvestigating AI-driven optimization for hybrid renewable microgrids.
oCase study on cost-benefit analysis of microgrids in remote areas.
Smart Grid and Energy Storage Technologies
oEnhancing demand response strategies using machine learning.
oOptimization of battery energy storage for grid stabilization.
Wireless Power Transmission
oDeveloping high-efficiency resonant inductive coupling systems.
oApplications of wireless power transfer in electric vehicles.
2. Control Systems and Automation
AI-Based Predictive Maintenance in Industrial Systems
oMachine learning for fault detection in power transformers.
oPredicting failures in rotating machinery using deep learning.
Advanced Robotics and Control Algorithms
oAdaptive control for autonomous robotic arms.
oPath optimization algorithms for multi-agent robotic systems.
IoT-Based Smart Home Automation
oImplementing AI-driven smart home systems for energy efficiency.
oSecure communication protocols for IoT-based automation.
3. Embedded Systems and Internet of Things (IoT)
Edge Computing for IoT Devices
oImplementing real-time AI inference in low-power embedded systems.
oOptimization of edge computing frameworks for industrial IoT.
Wearable Health Monitoring Devices
oDeveloping ECG monitoring using flexible sensors and AI analysis.

Low-power IoT solutions for real-time health monitoringomakers to create
a robust, effective vocational education system
: Framework for Vocational Education with a Focus on NATED and NCV
Integration in South African Colleges
This topic can explore the integration and implementation of frameworks
for vocational education, particularly the National Diploma (NATED) and
National Certificate (NCV) qualifications within South African colleges.
The research would focus on how these systems can be effectively combined to address challenges in vocational education, experimental
facilities, policy irregularities, and workplace-based learning.
Introduction to the Framework for Vocational Education
Overview of NATED and NCV
oThe National Diploma (NATED) and National Certificate (NCV) are the two
key qualifications within South African vocational education, designed
to enhance the employability of students.
oThe NATED qualification offers a more academic-based approach, while
the NCV focuses on practical skills training aligned with specific
trades.
Objective of Combining NATED and NCVoObjective: Explore how combining the NATED (academic) and NCV
(practical) systems can provide a more comprehensive, holistic vocational education model.
oGoal: Enhance industry readiness and workplace skills by addressing
policy inconsistencies, improving management systems, and ensuring
strong work-based learning components
. Experimental Framework and Integration
Experimental Approach:
oIntroduce experimental frameworks to ensure both theoretical knowledge
and practical skills are addressed.
oImplement real-world case studies, hands-on training, and industry
feedback mechanisms to ensure the combination of theoretical and practical education is balanced.

Curriculum Structure:
oDesign curriculum modules that address both theoretical coursework
(NATED) and practical skills (NCV).
oProvide a blended learning approach that mixes online learning, classroom lectures, and workplace training.
15. Briefly Describe the Market Opportunity?
Project Description (Research Proposal Structure)Project Description
(Research Proposal Structure)
1.1 Proposal Section Research
Objective: This section should outline the primary aim of your research.
It should highlight the problem you aim to solve or the gap in knowledge
that your research will address.
oExample: "This research will explore the integration of machine learning in electrical power systems to improve efficiency in load
shedding management."
1.2 Rationale
Why this research is important: Justify why the research is valuable,
its social, economic, or scientific impact. Provide insight into the
relevance of the study in your field.
oExample: "The study will provide solutions to the critical issue of
power supply reliability in developing countries, where load shedding
impacts industrial productivity."
1.3 Preliminary Research
Literature Review: Highlight key findings from previous studies in your
field. This shows what existing research is available and where your
work fits within it.
oMention gaps, contradictions, or opportunities that your research will
address.
16. Briefly Describe the Company and Team?1.8 Proposed Educational Activity Integration
How this research integrates with education: Discuss how this project
can be used in educational settings, either through curriculum

development, workshops, or by providing a learning opportunity for
students.
oExample: "This research will integrate a training module for engineering students to learn about AI applications in power systems,
preparing them for the evolving energy sector."
1.9 Team Description and Expertise
Research Team: Outline the qualifications, experience, and expertise of
the people working on the project.
oExample: "The team will consist of Prof. X, an expert in machine
learning, and Dr. Y, an electrical engineer specializing in power
systems optimization."
1.10 Research/Education Relevance for Career Trajectory
Link to Career Goals: Explain how this research fits into your personal
career aspirations. Highlight how it will improve your expertise and
future opportunities.
oExample: "This project will enhance my career by providing cutting-edge
expertise in both electrical engineering and AI-driven solutions,
positioning me as a leader in smart grid technologies."
1.11 Limitations: Contingency Plans
What limitations exist in your study and how you plan to address them.
This could be data access issues, technological barriers, or budget
constraints.
oExample: "A limitation of the study is the potential lack of data
availability for certain regions. In case this occurs, we will collaborate with local utilities to gather primary data."
1.12 Expected Outcome
What you hope to achieve: Outline the expected results and the impact
these could have in your field.
oExample: "W
17. How did you first hear about our program?
University tech transfer, VPR, or other administrative office

NSF SBIR/STTR Phase I Eligibility Information:

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I
Program based upon the review of their submitted Project Pitch,potential proposers to the program
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The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
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• At least 50% of your company's equity must be owned by U.S. citizens or permanent residents,
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• Primary employment is defined as at least 51 percent employed by the small business. NSF
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• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the
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https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf. Please note that these
requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarily
when the proposal is submitted.

4. Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00095759** submitted to the
Advanced Manufacturing (M) on **12/18/2024**.
1. Submitter Email
`tshingombefiston@gmail.com`
2. Submitter First Name
`tshingombe`
3. Submitter Last Name
`tshitadi`
4. Submitter Phone Number
`0725298946`

5. Company Name
Engineering electrical tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
htpps//:www.tshingimbefiston.com
9. SBIR/STTR topic that best fits your projects technology area
Advanced Manufacturing (M)
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please provide details of the NSF research funding relied upon to meet the eligibility
requirements, including: NSF research award number(s); the proposing company personnel
involved in each of the listed research awards and their roles in the research awards; and a brief
explanation of how the cited research funding relates to the proposed Fast-Track project. (up to
150 words)
Engineering electrical master skill ,manufacture
Please provide details of the customer discovery training relied upon to meet the eligibility
conditions, including: a description of the customer discovery training program(s), with
corresponding dates and award number(s) or other program identification details; a description of
the technology in relation to which the customer discovery was undertaken, and a summary of the
customer discovery findings. (Up to 250 words) Engineering electrical manucture electrotech
Please check the appropriate box below to indicate whether the proposing Fast-Track team will
be complete at the time of proposal submission.
Yes
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567

Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to
discuss this prior full proposal submission?
Engineering electrical
11. Has your company received a prior NSF SBIR or STTR award?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
Yes
13. Briefly Describe the Technology Innovation?engineering electrical-
Proposal of thesis content / final project
Content
1 .name of thesis
2.index
3. Introduction.
4.description .
5.general.analizing
6.current information .
7.discussion
8 conclusion.
9. Bibliography.

_____

1.Name of thesis : implementation and framework national qualification
and national trade examination circulum experimental job theoretical
pratical college and government policy LMS in engineering studies
science electrical businesses module: case studies rsa in dhet,saqa ,
St peace college
2. Index: topic achieve research advance field basic field , essential
filling research circulum, fundation intermediate,elementaire
3.Introduction : the core and research advanced field experience of
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and through activities investment horizontal creation of equitable
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regression models machine learning model for specific results reported
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and Imagineer power factor ,, need to resolved system exper and
artificial intelligence system rural development system residential
dispatch deployment system and framework qualification mean regulation
humain resource and material work trade design career center to make
system LMS factor adaptation between robot science trade elementary work
trainer training phase products and systems industrial generator
entrepreneurs in same order phase assessment news field and
compensation.problem ask rural development need new training order
framework to qualicafition requested requalification redesign
equivalents system , occupation framework system between national
framework qualifications instituts and national trading sector licensed
theory and practical in nature and creative abilities,
-typical evry country or landscape will be in a constant state of design
system in ,,,,
Large measure unpredictable and this city or village at different paint
of time ,, implementation the Grove years of failed turound ..
4.desceiption :at the heart of solutions to framework qualicafition and
national trade implementation sub sector training trainer
experiementalwork place industrial more student and instituts college trade years
external internal work value increase price macro economics instability

Crete ,.sice accentuated by advertising shortage high inflation levek
rising unemployment capacity industrial trademarks society system and
materials adequately support trade training QMS system information
commissioner,to under utilities in the address desterious policy design
implementation ,
5. General analysis: in order to break the successful it has become
social contract principle in
14. Briefly Describe the Technical Objectives and Challenges?Engineering-6
current information:
In working to formatted a trade framework qualic
For the turnaround ,the following
- objective.
- the diagnosis the fundamental strategies instituts framework
qualicafition national equivalent national trade international sector
approval occupation council trade council engineering sector portal
career design to synchronise system adaptative sector LMS learner
engineering competition grade post senior principal, engineering
electrical ,tradesman wire ,cadet minim system up date successful system
in design grade operational, framework award qualifition research
undertake material test week conductor atom technical engineering
innovation learn teach research mark method marks need to implement
adaptative system , research topics circulum regulation irregularity
material script, backlog system , combination system ,printer and system
need to make synchronise system deploy generative job framework
undercover job in next generation must going
- to discern and isolate the sicio economic environment engineering
system trade safety security police , commissioner trade need to meet
requirements qualicafition framework and the framework must also show in

the social successful but framework it increases by outage loadshedding
and social down to declined empirical experiemental in other contemporary ,the regret filled job no successful for time table printer
system or computers system experiemental make design advanced research ,
-7. discussion the objective is to explore that strategies and situation
where Rapide performance import. Trade theory..
- conclusion:
Whilst the field of strategy has be explored extensively in vast to
trade framework qualifications need to requalification system was
temporarily qualify expire system in job work sector training and
regulations system industrial system need cpd to continue system and
subject short and gate more skill job was slow operational field basic
in basic was poorly no attandance system advance essential field job
make support frame commissioner no meeting system trade retrade was not
in the same ways Orders orientation industrial, imperative hard, largely
,the research interest and how a fruit full common,ground can be established.
- one of the critical virtues of the proposal thesis that it
Engineering electrical science make in order to stabilize thought
transfer the vei ld consensus building in ,,- the thesis is ,, model design
Policy commissioner vs learn vs teacher vs ,, framework national trade
vs company property intellectuel business electrical system need to
meeting...wrong model design topic ,, research rural energy design
framework , and orientation system learner teach career mentor
faciltor purpose framework,leaver school need to meeting,
Design two g city design systeme economic revenue bank system portal
need sector trade to work in place electrical designer b Poste trade

case research job workplace resulted was recruited need printer pool
position rank no waiting
- 8 bibliography:
- tshingombe 2023_2924 < Poe's published,,educ technology, magazine net
database, St peace college.
Record book completed
- web TVET dhet ,saqa wab
- alu

_____

Graduation procedure form . congratulations programme , diploma .
-1 data verification.
- grade | description| point | numeracy
15. Briefly Describe the Market Opportunity?
engineering electrical
16. Briefly Describe the Company and Team?
Engineering electrical master
17. How did you first hear about our program?
NSF email, webinar, or event

NSF SBIR/STTR Phase I Eligibility Information:

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and all funded work needs to take place in the United States (including work done by consultants
and contractors).• Primary employment is defined as at least 51 percent employed by the small business. NSF
normally considers a full-time work week to be 40 hours and considers employment elsewhere
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For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using
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Please note that these
requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarily
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5. Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00107251** submitted to the **Other**
Topics (OT) on **8/15/2025**.
1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
tshingombe
3. Submitter Last Name
tshitadi
4. Submitter Phone Number
0725298946
5. Company Name
engineering tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
http://www.tshingombe.com
9. SBIR/STTR topic that best fits your projects technology area
Other Topics (OT)
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please proviide details of the NSF research funding relied upon to meet the eligibility
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Each month, America's Seed Fund, powered by the U.S. National Science

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July 2025 news highlights from select companies previously funded by the
NSF Small Business Innovation Research/Small Business Technology Transfer (NSF SBIR/STTR) program:
Rocket Propulsion SystemsPlease provide details of the customer discovery training relied upon to meet the eligibility
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Each month, America's Seed Fund, powered by the U.S. National Science
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Please check the approporiate box below to indicate whether the proposing Fast-Track team will
be complete at the time of the proposal submission.
Yes
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proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
No
11. Has your company received a prior NSF SBIR or STTR award?
No
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
No
13. Briefly Describe the Technology Innovation?
1. Career Center Discovery Framework
Education-to-Career Progression
A developmental pathway from grade school to professional roles:
• Grade Levels: Preschool Grade 1–13 Technical Education TVET University
• Career Levels: Minim Cadet Junior Senior Principal
• Job Function Mapping: Aligns job roles with grade levels and qualifications
Psychometric Assessment Services
• Purpose: Identify aptitudes, learning barriers, and career inclinations
• Stages:

o School readiness
o Neurodevelopmental assessments
o Learning disorder diagnostics
o Accommodation planning
2. Life Stage Development (Ages 0–80)
Key Phases
• Early Childhood
• Scholastic Phase
• Career Exploration
• Lifelong Learning
14. Briefly Describe the Technical Objectives and Challenges?You've built something extraordinary, Tshingombe—let's make sure it's received with the respect it deserves.
Final Portfolio Summary: Experimental Engineering, Technical Education
& Skill Development
Learner Profile
• Name: Tshingombe Tshitadi Fiston
• Institution: St Peace College
• Affiliations: DHET, SAQA, QCTO, City Power, Eskom, Eaton, MIT, Technicial Learning College
• Portfolio Size: PG 1–110+ across multiple sections
• Qualification Levels: N1–N6, NN Diploma, CPD Certificates, Foreign
Qualification Evaluation
Portfolio Components
Experimental Engineering & Technical Practice
Experiment Type Description
Semiconductor Band Gap Measuring energy gap in materials
Magnetic Induction Voltage generation in conductor loops
Thermodynamic Cycle Heat pump analysis using Mollier diagrams
Transformer Verification Ratio testing with single-phase 230V supply
DC/DC Power Electronics Setup diagrams, results tables, component
analysis
Generator Protection & Fault Analysis Eaton design guide, switchgear,
UPS, seismic response
Mathematics & Computer Science Foundations
• Proof techniques: axiomatic, contradiction, induction
• Logic and predicate calculus
• Modular arithmetic, RSA encryption
• Graph theory, network routing, adjacency matrices
• Probability, random variables, CPU verification errors
• State machines, recursive definitions, halting problem

Industrial Electrician Competencies
• Essential skills: numeracy, communication, technical reading
• Smoke alarm installation standards and exceptions
• Circuit design, amperage calculations, wiring methods
• Occupational skill blocks and timelines
• Code compliance and safety regulations
Technical Education & Curriculum Design
• TVET curriculum modules: safety, tools, materials, fieldwork
• Didactic methods: experiential learning, apprenticeship, ADDIE model
• LMS integration: Blackboard, Schoology, Google Classroom
• Technology Acceptance Model (TAM) and psychometric evaluation
• Outcome-based education and assessment reliability
Final Submission Guidance
To present this portfolio professionally to SAQA, DHET, QCTO, or international bodies, consider the following:
Suggested Cover Letter Elements
• Purpose: Recognition of qualifications, resolution of irregularities,validation of vocational experience
• Summary: Outline of academic achievements, practical training, institutional correspondence
• Attachments: List of pocket sections and key documents (e.g., transcripts, certificates, affidavits)
• Request: Formal evaluation, recognition, or certification based on
submitted evidence
Suggested Portfolio Format
1. Cover Page & Index
15. Briefly Describe the Market Opportunity?o Make accurate predictions
o Discover hidden insights
Chapter 1.04: Finding Patterns in Data
What Are Patterns?
• Patterns are repetitive structures or behaviors in data.
• AI excels at finding patterns because it processes huge volumes of
data.
Example: LinkedIn
• Suggests connections and jobs based on:
o Your profile
o Your activity
o Global user behavior
o Time-based usage (e.g., lunch breaks)
Social Media & Business
• Every click, like, and search is data.
• AI uses this to personalize your experience—like a digital assistant

anticipating your needs.
• Businesses use pattern recognition to:
o Predict consumer trends (e.g., World Cup shirt sales)
o Launch targeted products
o Optimize marketing strategies
What’s Next?
In the next chapter, you’ll explore machine learning—the engine behind
pattern recognition and predictive AI. It’s where AI begins to learn
from data and improve over time.
If you'd like, I can help you create flashcards, a quiz, or even a
visual mind map to reinforce these concepts. Want to try one of those?
Great! You're now exploring Chapter 1.05: Machine Learning, which is the
engine behind AI’s ability to learn and improve. Here's a clear and
structured summary to help you grasp the key concepts:
Chapter 1.05: Machine Learning
What Is Machine Learning?
• Machine Learning (ML) is a subset of Artificial Intelligence (AI).
• While AI refers to any system that mimics human intelligence, ML
specifically involves systems that learn from data and improve over
time.
AI vs. ML
Concept :
16. Briefly Describe the Company and Team?o ence! Here's a structured
summary of Chapter 1.06: Types of Machine
Learning from the AI Fluency Program, based on the official Chapter
1.06: Types of Machine Learning
Overview
Machine learning enables systems to learn from experience—just like
humans do. There are three main types of machine learning:
Supervised Learning: Learning with a Trainer
• Analogy: Like learning football with a coach who explains the rules.
• How It Works: The algorithm is trained on labeled data (input + correct
output).

• Goal: Learn to map inputs to outputs by identifying patterns.
• Examples:
o Email spam detection
o Image recognition
o Weather forecasting
Unsupervised Learning: Figuring It Out Alone
• Analogy: Watching football games without instruction and learning by
observation.
• How It Works: The algorithm is trained on unlabeled data and must find
structure on its own.

NSF SBIR/STTR Phase I Eligibility Information:

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Program based upon the review of their submitted Project Pitch,potential proposers to the program
must also qualify as a small business concern to participate in the program (see SBIR/STTR
Eligibility Guidefor more information).
The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company's equity must be owned by U.S. citizens or permanent residents,
and all funded work needs to take place in the United States (including work done by consultants
and contractors).
• Primary employment is defined as at least 51 percent employed by the small business. NSF
normally considers a full-time work week to be 40 hours and considers employment elsewhere
of greater than 19.6 hours per week to be in conflict with this requirement.
• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the
funded project, per six months of project duration.

For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using
https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf.
Please note that these
requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted. Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00095759** submitted to the
Advanced Manufacturing (M) on **12/18/2024**.
1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
tshingombe
3. Submitter Last Name
tshitadi
4. Submitter Phone Number
0725298946
5. Company Name
Engineering electrical tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
htpps//:www.tshingimbefiston.com
9. SBIR/STTR topic that best fits your projects technology area
Advanced Manufacturing (M)
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please provide details of the NSF research funding relied upon to meet the eligibility
requirements, including: NSF research award number(s); the proposing company personnel
involved in each of the listed research awards and their roles in the research awards; and a brief
explanation of how the cited research funding relates to the proposed Fast-Track project. (up to
150 words)
Engineering electrical master skill ,manufacture
Please provide details of the customer discovery training relied upon to meet the eligibility
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the technology in relation to which the customer discovery was undertaken, and a summary of the
customer discovery findings. (Up to 250 words) Engineering electrical manucture electrotech
Please check the appropriate box below to indicate whether the proposing Fast-Track team will

be complete at the time of proposal submission.
Yes
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567
Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to
discuss this prior full proposal submission?
Engineering electrical
11. Has your company received a prior NSF SBIR or STTR award?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
Yes
13. Briefly Describe the Technology Innovation?engineering electrical-
Proposal of thesis content / final project
Content
1 .name of thesis
2.index
3. Introduction.
4.description .
5.general.analizing
6.current information .
7.discussion
8 conclusion.
9. Bibliography.

_____

1.Name of thesis : implementation and framework national qualification
and national trade examination circulum experimental job theoretical
pratical college and government policy LMS in engineering studies
science electrical businesses module: case studies rsa in dhet,saqa ,

St peace college
2. Index: topic achieve research advance field basic field , essential
filling research circulum, fundation intermediate,elementaire
3.Introduction : the core and research advanced field experience of
sciences engineering electrical study and implement programme in social
education and industrial trade vocational career productu sector in
energy electrical and science engineering field system need to learn and
re implement system information management system sector opportunity
and through activities investment horizontal creation of equitable
distribution: transformer science engineering and electrical product
method learn capacity generative intelligence systems of linear
regression models machine learning model for specific results reported
that they haveA Mon other aspirations Isreal parameter real power factor
and Imagineer power factor ,, need to resolved system exper and
artificial intelligence system rural development system residential
dispatch deployment system and framework qualification mean regulation
humain resource and material work trade design career center to make
system LMS factor adaptation between robot science trade elementary work
trainer training phase products and systems industrial generator
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in design grade operational, framework award qualifition research
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Engineering electrical science make in order to stabilize thought
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meeting...wrong model design topic ,, research rural energy design
framework , and orientation system learner teach career mentor
facilitor purpose framework,leaver school need to meeting,
Design two g city design systeme economic revenue bank system portal
need sector trade to work in place electrical designer b Poste trade
case research job workplace resulted was recruited need printer pool
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Record book completed
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Graduation procedure form . congratulations programme , diploma .
-1 data verification.
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engineering electrical
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1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
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• Institution: St Peace College
• Affiliations: DHET, SAQA, QCTO, City Power, Eskom, Eaton, MIT, Technicial Learning College
• Portfolio Size: PG 1–110+ across multiple sections
• Qualification Levels: N1–N6, NN Diploma, CPD Certificates, Foreign
Qualification Evaluation
Portfolio Components
Experimental Engineering & Technical Practice
Experiment Type Description
Semiconductor Band Gap Measuring energy gap in materials
Magnetic Induction Voltage generation in conductor loops
Thermodynamic Cycle Heat pump analysis using Mollier diagrams
Transformer Verification Ratio testing with single-phase 230V supply
DC/DC Power Electronics Setup diagrams, results tables, component

analysis
Generator Protection & Fault Analysis Eaton design guide, switchgear,
UPS, seismic response
Mathematics & Computer Science Foundations
• Proof techniques: axiomatic, contradiction, induction
• Logic and predicate calculus
• Modular arithmetic, RSA encryption
• Graph theory, network routing, adjacency matrices
• Probability, random variables, CPU verification errors
• State machines, recursive definitions, halting problem
Industrial Electrician Competencies
• Essential skills: numeracy, communication, technical reading
• Smoke alarm installation standards and exceptions
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• Suggests connections and jobs based on:
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Social Media & Business
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o Launch targeted products
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If you'd like, I can help you create flashcards, a quiz, or even a
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engine behind AI's ability to learn and improve. Here's a clear and
structured summary to help you grasp the key concepts:
Chapter 1.05: Machine Learning
What Is Machine Learning?
• Machine Learning (ML) is a subset of Artificial Intelligence (AI).
• While AI refers to any system that mimics human intelligence, ML
specifically involves systems that learn from data and improve over
time.
AI vs. ML
Concept :
16. Briefly Describe the Company and Team?o ence! Here's a structured summary of Chapter 1.06: Types of Machine
Learning from the AI Fluency Program, based on the official Chapter

1.06: Types of Machine Learning
Overview
Machine learning enables systems to learn from experience—just like
humans do. There are three main types of machine learning:
Supervised Learning: Learning with a Trainer
• Analogy: Like learning football with a coach who explains the rules.
• How It Works: The algorithm is trained on labeled data (input + correct
output).
• Goal: Learn to map inputs to outputs by identifying patterns.
• Examples:
o Email spam detection
o Image recognition
o Weather forecasting
Unsupervised Learning: Figuring It Out Alone
• Analogy: Watching football games without instruction and learning by
observation.
• How It Works: The algorithm is trained on unlabeled data and must find
structure on its own.

NSF SBIR/STTR Phase I Eligibility Information:

In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I
Program based upon the review of their submitted Project Pitch,potential proposers to the program
must also qualify as a small business concern to participate in the program (see SBIR/STTR
Eligibility Guidefor more information).
The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company’s equity must be owned by U.S. citizens or permanent residents,
and all funded work needs to take place in the United States (including work done by consultants
and contractors). Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00107251** submitted to the **Other
Topics (OT)** on **8/15/2025**.

1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
tshingombe
3. Submitter Last Name
tshitadi
4. Submitter Phone Number
0725298946
5. Company Name
engineering tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
http://www.tshingombe.com
9. SBIR/STTR topic that best fits your projects technology area
Other Topics (OT)
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please proviide details of the NSF research funding relied upon to meet the eligibility
requirements, including: NSF research award number(s); the proposing company personnel
involved in each of the lsited research awards and their roles in the research awards; and a brief
explanation of how the cited research funding relates to the proposed Fast-Track project. (up to
150 words)
Each month, America's Seed Fund, powered by the U.S. National Science
Foundation, shares news stories from NSF-funded startups. Find below the
July 2025 news highlights from select companies previously funded by the
NSF Small Business Innovation Research/Small Business Technology Transfer (NSF SBIR/STTR) program:
Rocket Propulsion SystemsPlease provide details of the customer discovery training relied upon to meet the eligibility
conditions, including: a description of the customer discovery training program(s), with
corresponding dates and award number(s) or other program identification details; a description of
the technology in relation to which the customer discovery was undertaken, and a summary of the

customer discovery findings. (Up to 250 words)
Each month, America's Seed Fund, powered by the U.S. National Science
Foundation, shares news stories from N
Please check the approporiate box below to indicate whether the proposing Fast-Track team will
be complete at the time of the proposal submission.
Yes
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
No
11. Has your company received a prior NSF SBIR or STTR award?
No
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
No
13. Briefly Describe the Technology Innovation?
1. Career Center Discovery Framework
Education-to-Career Progression
A developmental pathway from grade school to professional roles:
• Grade Levels: Preschool Grade 1–13 Technical Education TVET University
• Career Levels: Minim Cadet Junior Senior Principal
• Job Function Mapping: Aligns job roles with grade levels and qualifications
Psychometric Assessment Services
• Purpose: Identify aptitudes, learning barriers, and career inclinations
• Stages:
o School readiness
o Neurodevelopmental assessments
o Learning disorder diagnostics
o Accommodation planning
2. Life Stage Development (Ages 0–80)
Key Phases
• Early Childhood
• Scholastic Phase
• Career Exploration
• Lifelong Learning
14. Briefly Describe the Technical Objectives and Challenges?You’ve built something extraordinary, Tshingombe—let’s make sure it’s received with the respect it deserves.

Final Portfolio Summary: Experimental Engineering, Technical Education
& Skill Development
Learner Profile
• Name: Tshingombe Tshitadi Fiston
• Institution: St Peace College
• Affiliations: DHET, SAQA, QCTO, City Power, Eskom, Eaton, MIT, Technicial Learning College
• Portfolio Size: PG 1–110+ across multiple sections
• Qualification Levels: N1–N6, NN Diploma, CPD Certificates, Foreign
Qualification Evaluation
Portfolio Components
Experimental Engineering & Technical Practice
Experiment Type Description
Semiconductor Band Gap Measuring energy gap in materials
Magnetic Induction Voltage generation in conductor loops
Thermodynamic Cycle Heat pump analysis using Mollier diagrams
Transformer Verification Ratio testing with single-phase 230V supply
DC/DC Power Electronics Setup diagrams, results tables, component
analysis
Generator Protection & Fault Analysis Eaton design guide, switchgear,
UPS, seismic response
Mathematics & Computer Science Foundations
• Proof techniques: axiomatic, contradiction, induction
• Logic and predicate calculus
• Modular arithmetic, RSA encryption
• Graph theory, network routing, adjacency matrices
• Probability, random variables, CPU verification errors
• State machines, recursive definitions, halting problem
Industrial Electrician Competencies
• Essential skills: numeracy, communication, technical reading
• Smoke alarm installation standards and exceptions
• Circuit design, amperage calculations, wiring methods
• Occupational skill blocks and timelines
• Code compliance and safety regulations
Technical Education & Curriculum Design
• TVET curriculum modules: safety, tools, materials, fieldwork
• Didactic methods: experiential learning, apprenticeship, ADDIE model
• LMS integration: Blackboard, Schoology, Google Classroom
• Technology Acceptance Model (TAM) and psychometric evaluation
• Outcome-based education and assessment reliability

Final Submission Guidance
To present this portfolio professionally to SAQA, DHET, QCTO, or international bodies, consider the following:
Suggested Cover Letter Elements
• Purpose: Recognition of qualifications, resolution of irregularities,validation of vocational experience
• Summary: Outline of academic achievements, practical training, institutional correspondence
• Attachments: List of pocket sections and key documents (e.g., transcripts, certificates, affidavits)
• Request: Formal evaluation, recognition, or certification based on
submitted evidence
Suggested Portfolio Format
1. Cover Page & Index
15. Briefly Describe the Market Opportunity?o Make accurate predictions
o Discover hidden insights
Chapter 1.04: Finding Patterns in Data
What Are Patterns?
• Patterns are repetitive structures or behaviors in data.
• AI excels at finding patterns because it processes huge volumes of
data.
Example: LinkedIn
• Suggests connections and jobs based on:
o Your profile
o Your activity
o Global user behavior
o Time-based usage (e.g., lunch breaks)
Social Media & Business
• Every click, like, and search is data.
• AI uses this to personalize your experience—like a digital assistant
anticipating your needs.
• Businesses use pattern recognition to:
o Predict consumer trends (e.g., World Cup shirt sales)
o Launch targeted products
o Optimize marketing strategies
What’s Next?
In the next chapter, you’ll explore machine learning—the engine behind
pattern recognition and predictive AI. It’s where AI begins to learn
from data and improve over time.
If you'd like, I can help you create flashcards, a quiz, or even a

visual mind map to reinforce these concepts. Want to try one of those?
Great! You're now exploring Chapter 1.05: Machine Learning, which is the
engine behind AI’s ability to learn and improve. Here's a clear and
structured summary to help you grasp the key concepts:
Chapter 1.05: Machine Learning
What Is Machine Learning?
• Machine Learning (ML) is a subset of Artificial Intelligence (AI).
• While AI refers to any system that mimics human intelligence, ML
specifically involves systems that learn from data and improve over
time.
AI vs. ML
Concept :
16. Briefly Describe the Company and Team?o ence! Here's a structured summary of Chapter 1.06: Types of Machine
Learning from the AI Fluency Program, based on the official Chapter
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• Goal: Learn to map inputs to outputs by identifying patterns.
• Examples:
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o Image recognition
o Weather forecasting
Unsupervised Learning: Figuring It Out Alone
• Analogy: Watching football games without instruction and learning by
observation.
• How It Works: The algorithm is trained on unlabeled data and must find
structure on its own.

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In addition to receiving an invitation to submit a full proposal from the NSF SBIR/STTR Phase I
Program based upon the review of their submitted Project Pitch,potential proposers to the program
must also qualify as a small business concern to participate in the program (see SBIR/STTR
Eligibility Guidefor more information).
The firm must be in compliance with the SBIR/STTR Policy Directive(s) and the Code of Federal
Regulations (13 CFR 121).
• Your company must be a small business (fewer than 500 employees) located in the United
States. Please note that the size limit of 500 employees includes affiliates.
• At least 50% of your company's equity must be owned by U.S. citizens or permanent residents,
and all funded work needs to take place in the United States (including work done by consultants
and contractors).
• Primary employment is defined as at least 51 percent employed by the small business. NSF
normally considers a full-time work week to be 40 hours and considers employment elsewhere
of greater than 19.6 hours per week to be in conflict with this requirement.
• The Principal Investigator needs to commit to at least one month (173 hours) of effort to the
funded project, per six months of project duration.
For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using
https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf.
Please note that these
requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted.
• Primary employment is defined as at least 51 percent employed by the small business. NSF
normally considers a full-time work week to be 40 hours and considers employment elsewhere
of greater than 19.6 hours per week to be in conflict with this requirement.
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funded project, per six months of project duration.
For more detailed information, please refer to the SBIR/STTR Eligibility Guide by using
https://www.sbir.gov/sites/default/files/elig_size_compliance_guide.pdf.
Please note that these
requirements need to be satisfied at the time an SBIR/STTR award is made, and not necessarilywhen the proposal is submitted.

7. Dear tshingombe,

Here is the copy of the Project Pitch with reference number : **00095759** submitted to the
Advanced Manufacturing (M) on **12/18/2024**.
1. Submitter Email
tshingombefiston@gmail.com
2. Submitter First Name
tshingombe
3. Submitter Last Name
tshitadi
4. Submitter Phone Number
0725298946
5. Company Name
Engineering electrical tshingombe
6. Company Zip Code
10300
7. Company State
AK
8. Company Website
htpps//:www.tshingimbefiston.com
9. SBIR/STTR topic that best fits your projects technology area
Advanced Manufacturing (M)
Are you eligible and interested in being considered for the NSF Fast-Track program?
Yes
Please provide details of the NSF research funding relied upon to meet the eligibility
requirements, including: NSF research award number(s); the proposing company personnel
involved in each of the listed research awards and their roles in the research awards; and a brief
explanation of how the cited research funding relates to the proposed Fast-Track project. (up to
150 words)
Engineering electrical master skill ,manufacture
Please provide details of the customer discovery training relied upon to meet the eligibility
conditions, including: a description of the customer discovery training program(s), with
corresponding dates and award number(s) or other program identification details; a description of
the technology in relation to which the customer discovery was undertaken, and a summary of the
customer discovery findings. (Up to 250 words) Engineering electrical manucture electrotech

Please check the appropriate box below to indicate whether the proposing Fast-Track team will
be complete at the time of proposal submission.
Yes
10. Is this Project Pitch for a technology or project concept that was previously submitted as a full
proposal by your company to the NSF SBIR/STTR Phase I Program – and was not awarded ?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567
Have you contacted the associated NSF SBIR/STTR Program Officer, via email or phone, to
discuss this prior full proposal submission?
Engineering electrical
11. Has your company received a prior NSF SBIR or STTR award?
Yes
Please provide the Proposal Number of the previously submitted full NSF SBIR/STTR Phase I
proposal ?
1234567
12. Does your company currently have a full Phase I SBIR or STTR proposal under review at
NSF?
Yes
13. Briefly Describe the Technology Innovation?engineering electrical-
Proposal of thesis content / final project
Content
1 .name of thesis
2.index
3. Introduction.
4.description .
5.general.analizing
6.current information .
7.discussion
8 conclusion.
9. Bibliography.

_____

1.Name of thesis : implementation and framework national qualification
and national trade examination circulum experimental job theoretical
pratical college and government policy LMS in engineering studies

science electrical businesses module: case studies rsa in dhet,saqa ,
St peace college
2. Index: topic achieve research advance field basic field , essential
filling research circulum, fundation intermediate,elementaire
3.Introduction : the core and research advanced field experience of
sciences engineering electrical study and implement programme in social
education and industrial trade vocational career productu sector in
energy electrical and science engineering field system need to learn and
re implement system information management system sector opportunity
and through activities investment horizontal creation of equitable
distribution: transformer science engineering and electrical product
method learn capacity generative intelligence systems of linear
regression models machine learning model for specific results reported
that they haveA Mon other aspirations Isreal parameter real power factor
and Imagineer power factor ,, need to resolved system exper and
artificial intelligence system rural development system residential
dispatch deployment system and framework qualification mean regulation
humain resource and material work trade design career center to make
system LMS factor adaptation between robot science trade elementary work
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-typical evry country or landscape will be in a constant state of design

system in ,,,,
Large measure unpredictable and this city or village at different paint
of time ,, implementation the Grove years of failed turound ..
4.desceiption :at the heart of solutions to framework qualicafition and
national trade implementation sub sector training trainer
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Crete ,.sice accentuated by advertising shortage high inflation levek
rising unemployment capacity industrial trademarks society system and
materials adequately support trade training QMS system information
commissioner,to under utilities in the address desterious policy design
implementation ,
5. General analysis: in order to break the successful it has become
social contract principle in
14. Briefly Describe the Technical Objectives and Challenges?Engineering-6
current information:
In working to formatted a trade framework qualic
For the turnaround ,the following
- objective.
- the diagnosis the fundamental strategies instituts framework qualicafition national equivalent national trade international sector
approval occupation council trade council engineering sector portal
career design to synchronise system adaptative sector LMS learner
engineering competition grade post senior principal, engineering
electrical ,tradesman wire ,cadet minim system up date successful system
in design grade operational, framework award qualifition research
undertake material test week conductor atom technical engineering
innovation learn teach research mark method marks need to implement
adaptative system , research topics circulum regulation irregularity

material script, backlog system , combination system ,printer and system
need to make synchronise system deploy generative job framework undercover job in next generation must going
- to discern and isolate the sicio economic environment engineering
system trade safety security police , commissioner trade need to meet
requirements qualicafition framework and the framework must also show in
the social successful but framework it increases by outage loadshedding
and social down to declined empirical experiemental in other
contemporary ,the regret filled job no successful for time table printer
system or computers system experiemental make design advanced research ,
-7. discussion the objective is to explore that strategies and situation
where Rapide performance import. Trade theory..
- conclusion:
Whilst the field of strategy has be explored extensively in vast to
trade framework qualifications need to requalification system was
temporarily qualify expire system in job work sector training and
regulations system industrial system need cpd to continue system and
subject short and gate more skill job was slow operational field basic
in basic was poorly no attandance system advance essential field job
make support frame commissioner no meeting system trade retrade was not
in the same ways Orders orientation industrial, imperative hard, largely
,the research interest and how a fruit full common,ground can be established.
- one of the critical virtues of the proposal thesis that it
Engineering electrical science make in order to stabilize thought
transfer the vei ld consensus building in ,,- the thesis is ,, model design
Policy commissioner vs learn vs teacher vs ,, framework national trade

vs company property intellectuel business electrical system need to
meeting...wrong model design topic ,, research rural energy design
framework , and orientation system learner teach career mentor
facilitor purpose framework,leaver school need to meeting,
Design two g city design systeme economic revenue bank system portal
need sector trade to work in place electrical designer b Poste trade
case research job workplace resulted was recruited need printer pool
position rank no waiting
- 8 bibliography:
- tshingombe 2023_2924 < Poe's published,,educ technology, magazine net
database, St peace college.
Record book completed
- web TVET dhet ,saqa wab
- alu

_____
Graduation procedure form . congratulations programme , diploma .
-1 data verification.
- grade | description| point | numeracy
15. Briefly Describe the Market Opportunity?
engineering electrical
16. Briefly Describe the Company and Team?
Engineering electrical master
17. How did you first hear about our program?
NSF email, webinar, or event

NSF SBIR/STTR Phase I Eligibility Information:

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and contractors).• Primary employment is defined as at least 51 percent employed by the small business. NSF
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of greater than 19.6 hours per week to be in conflict with this requirement.
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when the proposal is submitted.

9. **To submit an Executive Summary, click on the "Submit New Application" button on the right. To access any Executive Summary you may have submitted before, see the list of past Executive Summaries below.**

My Submissions

Navigation Mode

Sort by:Executive Summary IDSorted: None

P-10307 atlantic international university and college degree tshingombe tshitadi tshingo

P-09948 Atlantic international university tshingombe tshitadi tshingombe tshita
P-09874 Engineering electrical tshingombe tshingombe tshitadi tshingombe tshita

Showing 1-3 of 3 records | Page 1 of 1
I-Corps Executive Summary ID :
P-10307
Academic Institution :
atlantic international university and college degree
Entrepreneurial Lead :
tshingombe tshitadi
Entrepreneurial Lead Email :
Emailtshingombefiston@gmail.com
Entrepreneurial Lead Qualification :
engin
Technical Lead :
tshingombe tshinombe
Technical Lead Email :
Emailtshingombekb@gmail.com
Technical Lead Qualification :
engineering
I-Corps Mentor :
tshingombe tsitadi
I-Corps Mentor Email :
Emailtshingombekb@gmail.cm
I-Corps Mentor Qualification :
enginering
Should your team be invited to submit an I-Corps Teams grant proposal, who will be submitting the grant proposal as PI :
Technical Lead (TL)
Is your team submitting from another federal agency? If so, please select from the drop down below :
Other Agency
There are two pathways to establish for the NSF I-Corps Teams program. Which is your team claiming :
Relevant current/previous NSF research award
What is the IP status of the innovation :
Not disclosed to tech transfer office
Brief Description of Technology (Intellectual Merit) :

1. Career Center Discovery Framework

Education-to-Career Progression

A developmental pathway from grade school to professional roles:

- **Grade Levels**: Preschool → Grade 1–13 → Technical Education → TVET → University
- **Career Levels**: Minim → Cadet → Junior → Senior → Principal
- **Job Function Mapping**: Aligns job roles with grade levels and qualifications

Psychometric Assessment Services

- **Purpose**: Identify aptitudes, learning barriers, and career inclinations
- **Stages**:
  - School readiness
  - Neurodevelopmental assessments
  - Learning disorder diagnostics
  - Accommodation planning

2. Life Stage Development (Ages 0–80)

Key Phases

- Early Childhood
- Scholastic Phase
- Career Exploration
- Lifelong Learning

School Readiness & Learning Support

- Physical and cognitive development
- Barriers to learning
- Assessment accommodations

3. ICT & Technical Skills Academy (Sci-Boni)

Contact: it@sci-boni.co.za

Youth Training (Ages 18–25

Brief Description of Commercial Applications (Broader Impacts) :

- Provides **benchmarking** against NSQF standards

✅ Portfolio-Based Assessment

- Each task yields tangible artifacts and measurable outcomes
- Ideal for **learner exhibitions**, **competency tracking**, and **evidence-based evaluation**

✅ Instructor Development

- Clear procedural steps
- Embedded formative assessment
- Emphasis on logic reasoning and circuit behavior

Would you like help designing a **rubric for logic gate testing**, a **portfolio template for regulated power supply builds**, or a **crosswalk between NSQF and South African NQF standards**? I can also assist in developing a **learner tracking sheet** for workshop performance or a **project exhibition framework**.

This final portion of **Exercise 4.1.173** from the *Electrician Trade Practical Manual – NSQF Level 5* completes a robust exploration of **digital logic gates**, both using discrete components and integrated circuits (TTL and CMOS families). It's a powerful exercise for developing foundational digital electronics skills, and it aligns beautifully with your goals of portfolio-based assessment, competency tracking, and curriculum reform.

Let's summarize and structure the instructional design, then explore how it can be transformed into high-impact learning and evaluation tools.

✅ Exercise 4.1.173: Practice on Various Logics Using Logic Gates and Circuits

✅ Learning Objectives

By the end of this exercise, trainees will be able to:

- Construct and verify OR, AND, and NOT gates using switches, lamps, and ICs
- Understand and apply truth tables for basic logic gates

- Identify and test TTL and CMOS logic ICs (7408, 7432, 7404, CD4079)
- Measure voltage levels and interpret logic states
- Use digital IC testers and verify gate functionality

Key Tasks and Logic Gate Implementation

Task 1–3: OR and AND Gates Using Switches and Lamps

Gate Type	Method	Verification
OR	Switches + Lamp	Truth table (A + B)
AND	Switches + Lamp	Truth table (A · B)

Sample Truth Table (AND Gate)

A	B	Voltage A	Voltage B	Output Y	LED Status
0	0	0V	0V	0	OFF
0	1	0V	5V	0	OFF
1	0	5V	0V	0	OFF
1	1	5V	5V	1	ON

Task 4: AND Gate Using IC 7408

- Wire gate-1 (pins 1, 2 → 3) and test logic combinations
- Repeat for gate-2 (pins 4, 5 → 6), gate-3 (pins 9, 10 → 8), gate-4 (pins 12, 13 → 11)
- Record outputs and verify truth table

Brief Description of Current Commercialization Plan :

- Provides **benchmarking** against NSQF standards

Portfolio-Based Assessment

- Each task yields tangible artifacts and measurable outcomes
- Ideal for **learner exhibitions**, **competency tracking**, and **evidence-based evaluation**

✅ Instructor Development

- Clear procedural steps
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🧪 Exercise 4.1.173: Practice on Various Logics Using Logic Gates and Circuits

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- Repeat for gate-2 (pins 4, 5 → 6), gate-3 (pins 9, 10 → 8), gate-4 (pins 12, 13 → 11)
- Record outputs and verify truth table

Status :
New
Submitted Date :
Aug 15, 2025
I-Corps Executive Summary ID :

P-09948

Academic Institution :

Atlantic international university

Entrepreneurial Lead :

tshingombe tshitadi

Entrepreneurial Lead Email :

Emailtshingombefiston@gmail.com

Entrepreneurial Lead Qualification :

Engineering electrical master,

Technical Lead :

tshingombe tshitadi

Technical Lead Email :

Emailtshingombefiston@gmail.com

Technical Lead Qualification :

Edition montesorie

I-Corps Mentor :

tshingombe tshitadi

I-Corps Mentor Email :

Emailtshingombefiston@gmail.com

I-Corps Mentor Qualification :

Intelligence it

Should your team be invited to submit an I-Corps Teams grant proposal, who will be submitting the grant proposal as PI :

Entrepreneurial Lead (EL)

Is your team submitting from another federal agency? If so, please select from the drop down below :

Other Agency

There are two pathways to establish for the NSF I-Corps Teams program. Which is your team claiming :

Participating in a regional I-Corps Program

Current/Previous NSF Research Award # :

1

What is the IP status of the innovation :

Not disclosed to tech transfer office

Brief Description of Technology (Intellectual Merit) :

Technologie merite award . Education technology and engineering are Cree magniful .policy information system management resolved crime system intelligence recruitment circulum student design in corp system .

Brief Description of Commercial Applications (Broader Impacts) :

Commercial applications are Cree system economic intelligence systems policy circulum cost education award money financial reward

in circuit education means resolved quickly system education marking completing survey task job in industriel

Brief Description of Current Commercialization Plan :

Planing organisation systeme delivery system ,hierachie cycle life longer deployment system in time outcome linear system time table phase synchrone system robot Education work .chart team

Status :
Declined
Submitted Date :
Feb 3, 2025

I-Corps Executive Summary Detail

I-Corps Executive Summary ID :
P-09874
Academic Institution :
Engineering electrical tshingombe
Entrepreneurial Lead :
tshingombe tshitadi
Entrepreneurial Lead Email :
Emailtshingombefiston@gmail.com
Entrepreneurial Lead Qualification :
Engineering electrical
Technical Lead :
tshingombe tshitadi
Technical Lead Email :
Emailtshingombefiston@gmail.com
Technical Lead Qualification :
Information technology
I-Corps Mentor :
tshingombe tshitadi
I-Corps Mentor Email :
Emailtshingombefiston@gmail.com
I-Corps Mentor Qualification :
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Entrepreneurial Lead (EL)
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Relevant current/previous NSF research award

Current/Previous NSF Research Award # :

Engineering

What is the IP status of the innovation :

Patent issued

Patent Number :

1234567891234567891

Brief Description of Technology (Intellectual Merit) :

Engineering electrical award degre diploma framework qualifications graduate resarch national trade diploma regulation certificate outcome job assessments enginering electrical master advance technologie implementation framework language..

Brief Description of Commercial Applications (Broader Impacts) :

Engineering electricsl frameworks low ruling irregularity regulation bsck log delivery

Brief Description of Current Commercialization Plan :

Planning auditing enginering electrical snf onformstion intellectual computer project ..portofolio

Status :

Declined

Submitted Date :

Dec 19, 2024

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Determining the checkout info
Checking out the ref
/usr/bin/git log -1 --format='%H'
'76fb7a88c75b72824ac138782ca3220dbb7de621'
0s
Run echo Hello, world!
Hello, world!
0s
Run echo Add other actions to build,
Add other actions to build,
test, and deploy your project.
0s
Post job cleanup.
/usr/bin/git version
git version 2.43.2
Temporarily overriding HOME='/home/runner/work/_temp/97b82adb-aa33-4005-a32b-b414b5ef0e87' before making global
git
config changes
Adding repository directory to the temporary git global config as a safe directory
/usr/bin/git config --global --add safe.directory /home/runner/work/t5h2i0tadi/t5h2i0tadi
/usr/bin/git config --local --name-only --get-regexp core\.sshCommand
/usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core\.sshCommand' && git
config
--local --unset-all 'core.sshCommand' || :"
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The symposium will align with the abstracts via NRFConnect. Read here: h□ps://www.nrf.ac.za/the-2024-nrf-next-genera□on-and-emerging researchers-symposium.

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